

**TRACHEAL CATHETER AND PROSTHESIS AND METHOD OF RESPIRATORY
SUPPORT OF A PATIENT**

ABSTRACT OF THE DISCLOSURE

5 The invention is relative to a method and an apparatus for supporting the respiration of a patient and to a tracheal prosthesis. According to the invention the spontaneous respiration of a patient is detected by sensors and at the end of an inhalation procedure an additional amount of oxygen is administered to the lungs via a jet gas
10 current. This improves the absorption of oxygen during inhalation. If required, the exhalation procedure of the patient can be arrested or slowed by a countercurrent in order to avoid a collapse of the respiration paths in this manner. This procedure is realized by an apparatus comprising an oxygen pump that can be connected to an
15 oxygen source and comprising a tracheal prosthesis that can be connected via a catheter. The spontaneous respiration of the patient is detected by sensors connected to a control unit for activating the oxygen pump. The tracheal prosthesis comprises a tubular support body with a connection for the catheter and two of the sensors are
20 associated with the support body. The tracheal prosthesis and the jet catheter that is integrated or can be introduced are dimensioned so that the patient can freely breath and speak without restriction.